7.1.1 Minimum Efficiency Standards and Maximum Energy Use for Typical Single-Family Residential Heating and Cooling Equipment

				Maximum Energy Use for Space Heating (2)								
		<u></u>	1992				2006					
	Minimum Efficiency (1)		No	New		sting		Ne	New		Existing	
Heating Equipment	<u>1992</u>	<u>2006</u>	North	South	North	South		North	South	North	South	
Natural Gas, Furnace	78 AFUE	78 AFUE	1170	445	1489	771		1170	445	1489	771	
Oil, Boiler	80 AFUE	80 AFUE	731	N.A.	930	422		731	N.A.	930	422	
Electric, Heat Pump	6.8 HSPF	7.7 HSPF	12923	4685	11232	5546		11412	4137	9919	4898	

			Maximum Electricity Use for Space Cooling								
		_	1992					2006			
	Minimum Efficiency (3)		Ne	New Ex		xisting		New		Existing	
Cooling Equipment	<u>1992</u>	<u>2006</u>	North	South	North	South		North	South	North	South
Central Air Conditioner	10 SEER	13 SEER	1113	2543	1000	3743		927	2119	833	3119
Electric, Heat Pump	10 SEER	13 SEER	1100	2414	813	2657		846	1857	625	2044

Note(s): 1) AFUE = Annual Fuel Utilization Efficiency. HSPF = Heating Season Performance Factor. 2) Gas use is in therms. Oil use is in gallons. Electricity use is in kWh. 3) SEER = Seasonal Energy Efficiency Ratio.

Source(s): DOC/GPO, Title 10, Chapter 2, Part 430, Section 430.32, Jan 1, 2001, p. 259 for efficiencies; LBNL, Energy Data Sourcebook for the U.S. Residential Sector, Sept. 1997, Table 3.20, p. 52-53 and Table 3.21, p. 58; and Federal Register, Energy Conservation Program for Consumer Products: Central Air Conditioners and Heat Pumps Energy Conservation Standards, Vol. 66, No. 14, Jan. 22, 2001, p. 7170 for central air conditioner and heat pump.